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CLAIM LISTING:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-10, 12-14, 16, 17, and 19-24: cancelled.

Claim 25. (New) A system comprising:

a waveform synthesizer;

a delay element; and

a waveform detector;

wherein the system comprises a first set of signal paths and a second set of signal paths,

the first set of signal paths comprising:

a reference signal path from the waveform synthesizer to the delay element to the waveform detector; and

a local channel signal path from the waveform synthesizer to the waveform detector via a local loudspeaker and a local microphone;

the second set of signal paths comprising:

a first signal path from a signal source to an acoustic echo canceller via the local loudspeaker and the local microphone; and

a second signal path from the signal source to the delay element to the acoustic echo canceller;

wherein the waveform detector comprises logic to detect a measure of time between receipt of a waveform generated by the waveform synthesizer via the reference signal path and receipt of the waveform generated by the waveform synthesizer via the local channel signal path;

wherein the delay element is configured based on the waveform detector's detecting the measure of time between receipt of a waveform from the waveform

synthesizer via the reference signal path and receipt of the waveform from the waveform synthesizer via the local channel signal path; and

wherein the system selects the first set of signal paths to configure the delay element and wherein the system selects the second set of signal paths to process a telephony signal received from a remote site and a telephony signal being sent to the remote site.

Claim 26. (New) The system of claim 25, wherein the waveform synthesizer, the delay element, and the waveform detector comprise software.

Claim 27. (New) The system of claim 25, wherein the waveform detector to detect a measure of time between receipt of the waveform via the reference signal path and receipt of the waveform via the local channel signal path comprises logic to count a number of signal samples received after detecting receipt of the waveform from the waveform synthesizer.